

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	357	(417/474).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/01/03 08:42
L3	176	(417/477.1).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/01/03 08:49
L4	305	(417/478).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/01/03 08:54
L5	183	(417/475).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/01/03 09:03
L6	248	(417/479).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/01/03 09:11
L8	71	(62/168).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/01/03 09:19
L9	138	(62/92).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/01/03 09:26
L10	214	(62/91).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/01/03 09:35
L11	255	(62/90).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/01/03 09:35
L12	119998	(seal\$6 with (\$11rod or \$11shaft))	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/01/03 09:41
L13	79085	(seal with (rod or shaft))	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/01/03 09:41
L14	14949	(seal with (rod or shaft)).clm.	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/01/03 09:42
L15	2709	(seal with (rod or shaft)).clm.	US-PGPUB	AND	ON	2007/01/03 09:42
L16	5325	pump (seal with (rod or shaft)).clm.	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/01/03 09:44
L17	2428	(pump (seal with (rod or shaft))).clm.	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/01/03 09:45
L18	62987	("417").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/01/03 09:45
L20	668	L17 L18	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2007/01/03 09:46
S1	346	(417/474).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/01/03 08:37

## EAST Search History

S2	1	("4500266").PN.	US-PGPUB; USPAT	OR	OFF	2006/02/24 15:35
S3	1	("4690673").PN.	US-PGPUB; USPAT	OR	OFF	2006/02/24 15:36
S4	1	("4755109").PN.	US-PGPUB; USPAT	OR	OFF	2006/02/24 15:36
S5	3	("4500266" "4690673" "4755109").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/02/28 16:07
S6	759	417/474	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/03/01 09:15
S7	167	417/477.1	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/03/01 09:16
S8	35	("20020177821"   "20030014035"   "3966358"   "4255088"   "4277226"   "4396385"   "4457751"   "4460535"   "4617014"   "4690673"   "4781548"   "4854836"   "4954812"   "4966579"   "5018945"   "5057076"   "5176631"   "5417213"   "5429602"   "5439451"   "5494036"   "5616124"   "5739508"   "5807322"   "5827223"   "5853397"   "6064797"   "6083206"   "6106249"   "6106502"   "6203528"   "6213738"   "6224578"   "6248093"   "6261262").PN. OR ("6881043"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2006/03/01 13:32
S9	555	417/478	US-PGPUB; USPAT; USOCR	AND	ON	2006/03/01 14:11
S10	303	(417/478).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/01 14:11
S11	45	S10 beari\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/03/01 14:13
S12	346	(417/474).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/10 11:50
S13	67	S12 and membrane	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/03/10 11:50

## EAST Search History

S14	180	(417/475).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/13 09:46
S15	1	("4482347").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/13 11:12
S16	246	(417/479).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/13 11:12
S17	807	(92/168).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/13 13:32
S18	514	(92/92).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/13 13:38
S19	118	(92/91).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/13 13:43
S20	312	(92/90).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/13 14:16
S21	1066	(417/474,477.1,478,475,479).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/13 14:16
S22	81	S21 (seal\$6 with (rod\$4 or drive\$4 or crank\$4 or shaft\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/03/13 14:26
S23	1066	(417/474,477.1,478,475,479).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/13 15:41
S24	44	S23 (seal\$6 with (\$11rod or \$11shaft))	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/01/03 09:41
S25	1407	(417/474,477.1,478,475,479).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/14 13:02
S26	118	S25 and (seal\$6 with (rod\$4 or drive\$4 or crank\$4 or shaft\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/03/14 14:02
S27	44	S25 and (seal\$6 with (\$11rod or \$11shaft))	US-PGPUB; USPAT; EPO; JPO	AND	ON	2006/03/14 14:04
S28	27	S25 and (seal\$6 with (\$5rod or \$5shaft))	USOCR	AND	ON	2006/03/14 14:32
S29	1711	(92/168,92,91,90).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/14 14:33
S30	807	(92/168).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/14 14:38
S31	1274	(92/168).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/14 14:38
S32	1066	(417/474,477.1,478,475,479).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/15 10:01

## EAST Search History

S33	1407	(417/474,477.1,478,475,479).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/15 10:18
S34	668	S33 (seal\$6 or diaphragm or membrane)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/03/15 11:06
S35	1407	(417/474,477.1,478,475,479).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/15 11:06
S36	1407	S35	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/03/15 11:06
S37	413	S35(peristal\$5 near5 pump\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/03/15 11:07
S38	759	417/474	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/03/15 14:36
S39	412	(417/474).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/15 14:36
S40	228	S39 and peristal\$5	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/03/15 14:44
S41	75	S39 and (peristal\$5 same finger\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/03/15 15:20
S42	0	S39 and (peristal\$5 same finger\$4 near rod)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/03/15 15:21
S43	14	S39 and (peristal\$5 same finger\$4 and rod)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/03/15 15:30
S44	5	S39 and (peristal\$5 same finger\$4 same rod)	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2006/03/15 15:30
S45	1	("4893991").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/16 10:37

## EAST Search History

S46	1	("4893991").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/16 12:38
S47	354	(417/474).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/23 19:52

# Interference Search

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L12	119998	(seal\$6 with (\$11rod or \$11shaft))	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/01/03 09:41
L13	79085	(seal with (rod or shaft))	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/01/03 09:41
L14	14949	(seal with (rod or shaft)).clm.	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/01/03 09:42
L15	2709	(seal with (rod or shaft)).clm.	US-PGPUB	AND	ON	2007/01/03 09:42
L16	5325	pump (seal with (rod or shaft)).clm.	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/01/03 09:44
L17	2428	(pump (seal with (rod or shaft))). clm.	US-PGPUB; USPAT; EPO; JPO	AND	ON	2007/01/03 09:45
L18	62987	("417").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/01/03 09:45
L20	668	L17 L18	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	ON	2007/01/03 09:46